

## **CHAPTER 4**

### **POINT AND NONPOINT SOURCE CHARACTERIZATION OF THE CORDELL HULL LAKE WATERSHED**

#### **4.1 Background.**

#### **4.2. Characterization of HUC-10 Subwatersheds**

##### **4.2.A. 0513010601 (Cumberland River)**

##### **4.2.B. 0513010602 (Roaring River)**

##### **4.2.C. 0513010603 (Cumberland River)**

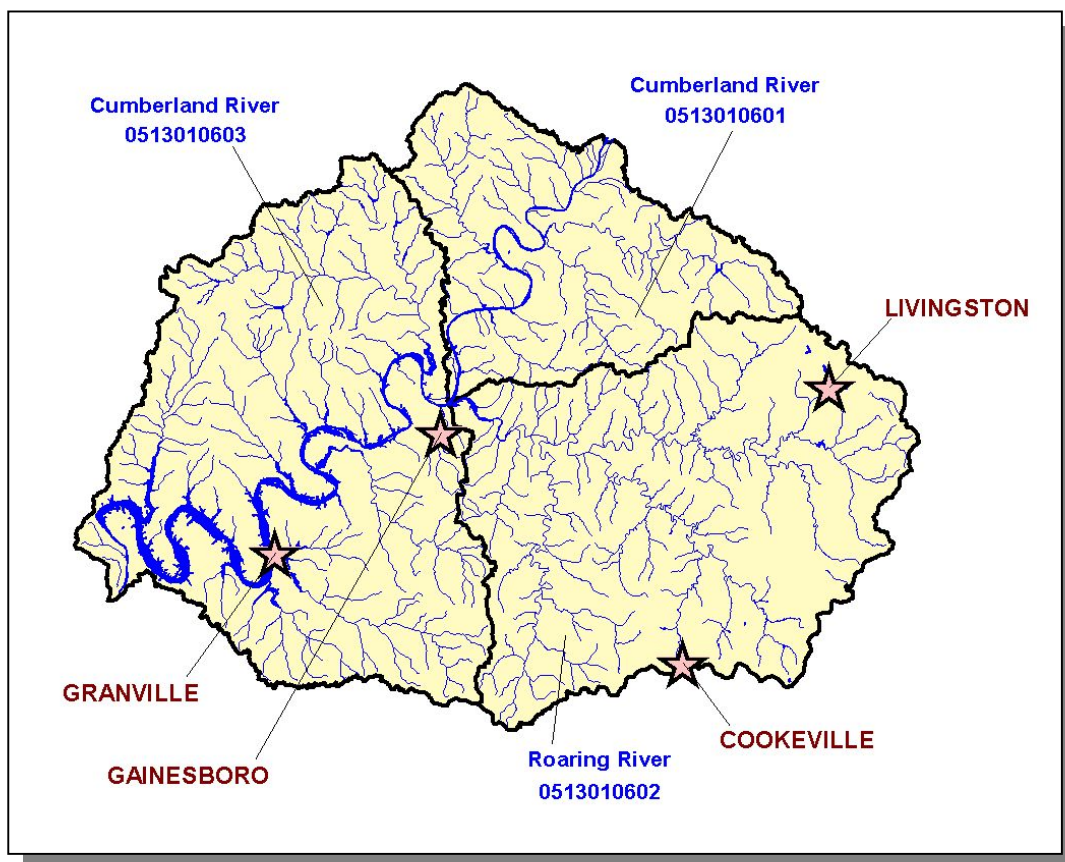
**4.1. BACKGROUND.** This chapter is organized by HUC-12 subwatershed, and the description of each subwatershed is divided into four parts:

- i. General description of the subwatershed
- ii. Description of point source contributions
  - ii.a. Description of facilities discharging to water bodies listed on the 2004 303(d) list
- iii. Description of nonpoint source contributions

The Cordell Hull Lake Watershed (HUC 05130106) has been delineated into three HUC 10 (10-digit) subwatersheds, each of which is composed of one or more HUC-12 subwatersheds.

Information for this chapter was obtained from databases maintained by the Division of Water Pollution Control or provided in the WCS (Watershed Characterization System) data set. The WCS used was version 2.0 (developed by Tetra Tech, Inc for EPA Region 4) released in 2003.

WCS integrates with ArcView® v3.x and Spatial Analyst® v1.1 to analyze user-delineated (sub)watersheds based on hydrologically connected water bodies. Reports are generated by integrating WCS with Microsoft® Word. Land Use/Land Cover information from 1992 MRLC (Multi-Resolution Land Cover) data are calculated based on the proportion of county-based land use/land cover in user-delineated (sub)watersheds. Nonpoint source data in WCS are based on agricultural census data collected 1992–1998; nonpoint source data were reviewed by Tennessee NRCS staff.



**Figure 4-1. The Cordell Hull Lake Watershed is Composed of Three USGS-Delineated Subwatersheds (10-Digit Subwatersheds). Locations of Cookeville, Gainesboro, Granville, and Livingston are shown for reference.**

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**4.2. CHARACTERIZATION OF HUC-10 SUBWATERSHEDS.** The Watershed Characterization System (WCS) software and data sets provided by EPA Region IV were used to characterize each subwatershed in the Cordell Hull Lake Watershed.

HUC-10	HUC-12
0513010601	051301060101 (Cumberland River)
	051301060102 (Cumberland River)
	051301060103 (Mill Creek)
	051301060104 (Dry Fork Creek)
	051301060105 (Brimstone Creek)
0513010602	051301060201 (Roaring River)
	051301060202 (Roaring River)
	051301060203 (Flat Creek)
	051301060204 (Spring Creek)
	051301060205 (Blackburn Fork)
0513010603	051301060301 (Cumberland River)
	051301060302 (Jennings Creek)
	051301060303 (Wartrace Creek)
	051301060304 (Cumberland River)
	051301060305 (Flynn Lick Creek)
	051301060306 (Martin Creek)
	051301060307 (Cumberland River)
	051301060308 (Defeated Creek)
	051301060309 (Cumberland River)

**Table 4-1. HUC-12 Drainage Areas are Nested Within HUC-10 Drainages.** NRCS worked with USGS to delineate the HUC-10 and HUC-12 drainage boundaries.